

PTO UTILITY GRANT  
Paper Number 9

- A. ☒ 1. ☐ 2. ☐ 3. ☐ 4. ☐ 5.

- B. ☒ 1. A ☒ 2. C

- C. ☒ 1. Ab ☒ 2. Se ☒ 3. Co ☐ 4. No

- D. ☐ 1. Con ☐ 2. Con ☐ 3. Con ☒ 4. There ☒ 5. Penci ☒ 6. Foreign ☒ 7. Certific ☒ 8. Exam ☐ 9. On re

- E. ☒ 1. All claim ☒ 2. Total nu ☒ 3. Total nu

- F. ☒ 1. Issue cl ☐ 2. Serial  
Signature

The  
United  
States  
of  
America



## The Commissioner of Patents and Trademarks

Has received an application for a patent  
for a new and useful invention. The title  
and description of the invention are en-  
closed. The requirements of law have  
been complied with, and it has been de-  
termined that a patent on the invention  
shall be granted under the law.

Therefore, this

### United States Patent

Grants to the person or persons having  
title to this patent the right to exclude  
others from making, using or selling the  
invention throughout the United States  
of America for the term of seventeen  
years from the date of this patent, sub-  
ject to the payment of maintenance fees  
as provided by law.

Harry F. Markush, Jr.

Commissioner of Patents and Trademarks

Attest  
Martha A. Thompson

PTO-1584